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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/792,214	03/04/2004	Sheng-Ping Zhong	12013/62704	4161	
23838 KENYON & K	7590 05/18/2007 CENVON LLP		EXAMINER		
1500 K STREE		PREBILIC, PAUL B			
SUITE 700 WASHINGTO	N, DC 20005	ART UNIT	PAPER NUMBER		
	•		3738		
			MAIL DATE	DELIVERY MODE	
			05/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application	on No.	Applicant(s)	
Office Action Summary		10/792,2		ZHONG, SHENG-PING	٠
		Examiner		Art Unit	
		Paul B. Pr		3738	
<i>1 7</i> Period for F	he MAILING DATE of this communicately	tion appears on the	cover sheet with the c	orrespondence address	
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Status					
2a)	esponsive to communication(s) filed on is action is FINAL . 2b) note this application is in condition for essed in accordance with the practice of the second seco	☐ This action is nallowance except	for formal matters, pro		s is
Disposition	•	•	• .	·	
4) CI: 4a) 5) CI: 6) CI: 7) CI: 8) CI: Application 9) The 10) The	aim(s) 26,36 and 37 is/are pending in Of the above claim(s) is/are value(s) is/are value(s) is/are allowed. aim(s) 26,36 and 37 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction	withdrawn from contact and/or election rectact and accepted or by the correction is required.	equirement. objected to by the location in abeyance. See led if the drawing(s) is objection.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.12	• •
Priority und	er 35 U.S.C. § 119		•		
12) Acl a) 1. 1. 2. 3.	knowledgment is made of a claim for All b) Some * c) None of: Certified copies of the priority doc Certified copies of the priority doc	cuments have bee cuments have bee the priority docume l Bureau (PCT Rul	n received. n received in Applicati ents have been receive e 17.2(a)).	on Noed in this National Stage	^
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2) Notice of 3) Informati	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-on Disclosure Statement(s) (PTO/SB/08) D(s)/Mail Date	-948) ·	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

Application/Control Number: 10/792,214

Art Unit: 3738

Election/Restrictions

Claims 22-25 and 40 were withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the communication filed February 6, 2006. These claims were cancelled by the amendment filed March 26, 2007.

Terminal Disclaimer

The terminal disclaimers filed on March 26, 2007 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patents 6,197,051 and 6,723,121 have been reviewed and accepted. The terminal disclaimers have been recorded.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 26, 36 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 26 sets forth a "composition containing an organic acid functional group", but later states "a molar excess ... relative to the organic acid functional groups." Therefore, it is not clear whether one or more than one functional group is being claimed. Furthermore, it is not clear whether there would be a molar excess of crosslinking agent with respect to all the organic acid functional groups or not.

Application/Control Number: 10/792,214

Art Unit: 3738

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26, 36, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Shults et al (US 4,994,167) or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shults et al (US 4,994,167) in view of Nishimura et al (US 4,888,285) or Compere et al (US 4,287,305) or Guire (US 4,979,959). Shults anticipates the claim language where BAYBOND 123 (see column 13, lines 11-46 of Shults) is equivalent to Applicant's Bayhydrol 123 (see page 8, lines 1-3 of the specification) and wherein the organic acid functional groups are the carboxylate groups on the polymer backbone; see column 13, lines 11-27. On column 13, lines 52-55, Shults states that a crosslinking agent is added to the polymer to make the polymer. It appears that the claims do not preclude the n-methyl-2-pyrrolidone contained in each of these dispersions; see columns 13 and 14 of Shults. The coating composition contains an excess of polyfunctional crosslinking agent as claimed because the claim language is indefinite and it appears to only require one organic acid group. Moreover, it is not clear that the excess is respect to all the acid functional groups in the composition.

Alternatively, one could reasonably interpret the claims are requiring a molar excess with respect to all organic acid functional groups. However, the prior art, as exemplified by Nishimura (see column 6, line 62 et seq.) or Compere (see the abstract

Application/Control Number: 10/792,214

Art Unit: 3738

and column 3, lines 1-18) or Guire (see column 12, line 43 et seq. or column 13, line 32 seq.), knew to use a molar excess of crosslinking agent or reactant in order ensure that the reaction went to as close to 100% completion as possible. Therefore, it is the Examiner's position that it would have been obvious to utilize an excess of crosslinking agent with respect to all organic acid functional groups of Shults in order to ensure that the reaction goes to as close to 100% completion as possible or for the reasons that Nishimura, Compere, or Guire utilize the same.

Response to Arguments

Applicant's arguments filed March 26, 2007 have been fully considered but they are not persuasive.

In response to the traversal of the Shults anticipation rejection that Shults has no excess of crosslinking agent, the Examiner asserts that the claim language is fully met because the claim language pertaining to the excess relative to the organic acid functional groups is not clear. Therefore, it reads on any unreacted crosslinking agent in the unreacted aqueous dispersion as long as one or possibly two of the groups are reacted. Alternatively, it would have been at least obvious to utilize excess crosslinking agent to ensure the reaction goes as close to 100% completion as possible.

Conclusion

Applicant should specifically point out the support for any amendments made to the disclosure, including the claims (MPEP 714.02 and 2163.06). Due to the procedure outlined in MPEP 2163.06 for interpreting claims, it is noted that other art may be applicable under 35 USC 102 of 35 USC 103(a) once the aforementioned issue(s) is/are addressed.

Applicant is respectfully requested to provide a list of all copending applications that set forth similar subject matter to the present claims. A copy of such copending

Art Unit: 3738

claims is respectfully requested in response to this Office action if the application is not stored in image format (i.e. the IFW system) or published.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Paul B. Prebilic whose telephone number is (571) 272-4758. He can normally be reached on 6:30-5:00 M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Prébilic Primary Examiner

Art Unit 3738